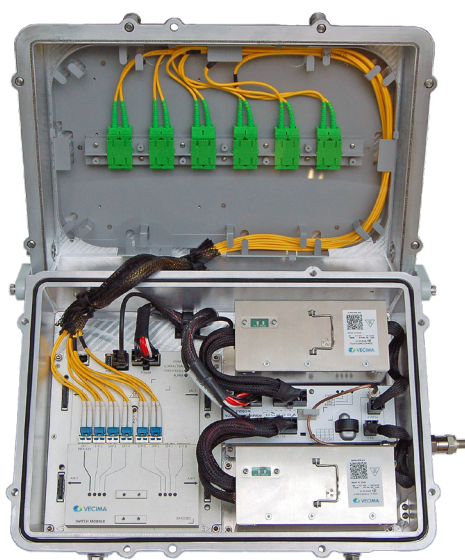


The **Entra Access Switch** is a remote 8 port x 10 GbE weatherproof switch capable of supporting Carrier Ethernet services in almost any deployment environment. It is designed to extend the capacity of networks with insufficient fibers while minimizing the use of expensive DWDM optics. Capital expenditure costs are significantly reduced for: short run fiber extension, deep fiber distributed access deployments and business services extension. Support for IEEE 1588v2 timing provides capability for mobile network backhaul as well as DOCSIS 3.1 distributed access aggregation. The Entra Access Switch will ensure maximum ROI from your existing short and long range fiber links.



## Use Cases

- Aggregation
  - Long haul DWDM SFP+ transport to multiple Short Range commodity optics
  - Capacity – Share 10 Gbps connection(s) across multiple 1 Gbps connections
  - DOCSIS 3.1 Distributed Access nodes (R-PHY / R-MACPHY)
- Mobile Network Backhaul – Link and backhaul multiple cell towers requiring synchronization (IEEE 1588v2)
- Support Business Services

## Networking Features

- 8 x SFP+ 10G/1G interfaces
- Up to 80 Gbps bidirectional
- L2/L3-aware Switching
- VLAN, Q-in-Q, MSTP, LACP, ACLs, IGMP and MLD ASM snooping
- Maintenance – EFM, CFM, LLDP, and Y.1731
- IEEE 1588v2 support
- Security – 802.1X port authentication
- Link Protection – 802.3ad LAG, G.8031/8032

## Deployment Features

- Outdoor hardened multiport 10 GbE switch
- Large fiber tray with generous support for optical couplers, splice holders, inline or cassette-style DWDM mux/demux
- Powering from a power-passing tap (60/90 VAC)
- Mounting options for strand, pedestal or wall
- Dimensions:
  - 18" (46 cm) x 11.5" (29 cm) x 6.75" (17 cm)
- 2 Fiber Entry Ports

# Access Switch - Specifications

Ethernet Switch		Control & Management	
<b>Ports</b>	8 x dual-mode 1/10GE; SFP/SFP+	<b>Interfaces</b>	SSH Command Line Interface with TACACS+
<b>Timing Support</b>	IEEE 1588v2 PTP Boundary Clock	<b>Management Addressing</b>	Dual stack DHCPv4/IPv4 and DHCPv6/IPv6
<b>Protection</b>	802.1AX Link Aggregation (LAG) L2/L3/L4 LAG Hashing RSTP, MSTP, LACP G.8031 Linear Protection Switching G.8032 Ring Protection Switching	<b>Chassis / Power / Environmental</b>	
<b>Multicast Support</b>	IGMP v2/v3 and MLD v1/v2 ASM snooping RFC-4541 compliant	<b>Dimensions (H x W x D)</b>	11.5 in. x 18 in. x 6.75 in. (29 cm x 46 cm x 17 cm)
<b>Ethernet</b>	32K MAC addresses supported 64 byte frames; 16096 byte Jumbo Frames Port Mirroring Store and Forward Flow control and Storm control	<b>Weight</b>	25 lbs. (11.4 kg)
<b>Authentication</b>	802.1X supplicant for management interface authentication EAPOL pass-through for authenticating downstream supplicants	<b>Input Voltage</b>	AC 45-90V (Quasi Square Wave), 50/60Hz 60 W maximum
<b>Operations, Administration &amp; Maintenance</b>	IEEE 802.1ag CFM IEEE 802.3ah EFM-OAM ITU-T Y.1731 OAM LLDP - [IEEE 802.1ab]	<b>Input Connector</b>	SCTE-91 compliant with pre-installed F-type female adapter
<b>Aggregate Throughput</b>	80 Gbps, duplex	<b>Temperature (Operational)</b>	-40 to 60°C (-40 to 140°F)
<b>VLAN Support</b>	Priority Queueing [IEEE 802.1Q; 802.1p] IEEE 802.1Q encapsulation IEEE 802.1ad Q-in-Q tunneling Up to 4094 Port Based	<b>Humidity (Operational)</b>	5 to 95%
<b>Security</b>	Standard and Extended ACLs	<b>Mounting</b>	Strand, Pedestal, Wall
<b>QoS</b>	Diffserv support Rate Limiting 3 level scheduling based on queue/group/port 3 level shaping based on queue/group/port CIR, PIR (EIR) per port/per MAC/per IP	<b>Regulatory Standards Compliance</b>	CSA/UL IC, FCC, CE RoHS & WEEE